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SEQUENCE LISTING

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<120> HELICOBACTER PYLORI ADHESIN BINDING GROUP ANTIGEN

<130> 0825-150P

<140> 09/202,178

<141> 1999-02-10

<150> PCT/SE97/01009

<151> 1997-06-10

<150> 9602287-6 SE

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<170> PatentIn Ver. 2.1

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<213> *Helicobacter pylori*

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<211> 744

<212> PRT

<213> *Helicobacter pylori*

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<221> PEPTIDE

<222> (24)..(64)

<223> N-terminal domain of the BabA adhesin

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35 40 45

Ile Gln Asp Leu Ser Asp Asn Tyr Glu Asn Leu Ser Lys Leu Leu Thr
50 55 60

Arg Tyr Ser Thr Leu Asn Thr Leu Ile Lys Leu Ser Ala Asp Pro Ser
65 70 75 80

Ala Ile Asn Ala Ala Arg Glu Asn Leu Gly Ala Ser Ala Lys Asn Leu
85 90 95

Ile Gly Asp Thr Lys Asn Ser Pro Ala Tyr Gln Ala Val Leu Leu Ala
100 105 110

Ile Asn Ala Ala Val Gly Phe Trp Asn Val Leu Gly Tyr Ala Thr Gln
115 120 125

Cys Gly Gly Asn Ala Asn Gly Gln Glu Ser Thr Ser Ser Thr Thr Ile
130 135 140

Phe Asn Asn Glu Pro Gly Tyr Arg Ser Thr Ser Ile Thr Cys Ser Leu
145 150 155 160

Asn Arg Tyr Lys Pro Gly Tyr Tyr Gly Pro Met Ser Ile Glu Asn Phe
165 170 175

Lys Lys Leu Asn Glu Ala Tyr Gln Ile Leu Gln Thr Ala Leu Asn Lys

180	185	190
Gly Leu Pro Ala Leu Lys Glu Asn Asn Gly Thr Val Ser Val Thr Tyr 195	200	205
Thr Tyr Thr Cys Ser Gly Glu Gly Asn Asp Asn Cys Ser Lys Lys Ala 210	215	220
Thr Gly Val Ser Asp Gln Asn Gly Gly Thr Lys Thr Lys Thr Gln Thr 225	230	235 240
Ile Asp Gly Lys Thr Val Thr Thr Thr Ile Ser Ser Lys Val Val Asp 245	250	255
Ser Gln Ala Lys Gly Asn Thr Thr Arg Val Ser Tyr Thr Glu Ile Thr 260	265	270
Asn Lys Leu Asp Gly Val Pro Asp Ser Ala Gln Ala Leu Leu Ala Gln 275	280	285
Ala Ser Thr Leu Ile Asn Thr Ile Asn Thr Ala Cys Pro Tyr Phe Ser 290	295	300
Val Thr Asn Lys Ser Gly Gly Pro Gln Met Glu Pro Thr Arg Gly Lys 305	310	315 320
Leu Cys Gly Phe Thr Glu Glu Ile Ser Ala Ile Gln Lys Met Ile Thr 325	330	335
Asp Ala Gln Glu Leu Val Asn Gln Thr Ser Val Ile Asn Glu His Glu 340	345	350
Gln Ser Thr Pro Val Gly Gly Asn Asn Gly Lys Pro Phe Asn Pro Phe 355	360	365
Thr Asp Ala Ser Phe Ala Gln Gly Met Leu Ala Asn Ala Ser Ala Gln 370	375	380
Ala Lys Met Leu Asn Leu Ala His Gln Val Gly Gln Thr Ile Asn Pro 385	390	395 400
Asp Asn Leu Thr Gly Thr Phe Lys Asn Phe Val Thr Gly Phe Leu Ala 405	410	415
Thr Cys Asn Asn Lys Ser Thr Ala Gly Thr Ser Gly Thr Gln Gly Ser 420	425	430
Pro Pro Gly Thr Val Thr Thr Gln Thr Phe Ala Ser Gly Cys Ala Tyr		

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Val Glu Gln Thr Ile Thr Asn Leu Asn Asn Ser Ile Ala His Phe Gly		
450	455	460
Thr Gln Glu Gln Gln Ile Gln Gln Ala Glu Asn Ile Ala Asp Thr Leu		
465	470	475 480
Val Asn Phe Lys Ser Arg Tyr Ser Glu Leu Gly Asn Thr Tyr Asn Ser		
485	490	495
Ile Thr Thr Ala Leu Ser Lys Val Pro Asn Ala Gln Ser Leu Gln Asn		
500	505	510
Val Val Gly Lys Lys Asn Asn Pro Tyr Ser Pro Gln Gly Ile Glu Thr		
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Asn Tyr Tyr Leu Asn Gln Asn Ser Tyr Asn Gln Ile Gln Thr Ile Asn		
530	535	540
Gln Glu Leu Gly Arg Asn Pro Phe Arg Lys Val Gly Ile Val Ser Ser		
545	550	555 560
Gln Thr Asn Asn Gly Ala Met Asn Gly Ile Gly Ile Gln Val Gly Tyr		
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Phe Ile Asn Asp Lys Ala Thr Asn Phe Leu Gly Lys Asn Asn Lys Leu		
625	630	635 640
Ser Val Gly Leu Phe Gly Gly Ile Ala Leu Ala Gly Thr Ser Trp Leu		
645	650	655
Asn Ser Glu Tyr Val Asn Leu Ala Thr Met Asn Asn Val Tyr Asn Ala		
660	665	670
Lys Met Asn Val Ala Asn Phe Gln Phe Leu Phe Asn Met Gly Val Arg		
675	680	685
Met Asn Leu Ala Arg Ser Lys Lys Lys Gly Ser Asp His Ala Ala Gln		

690 695 700
 His Gly Ile Glu Leu Gly Leu Lys Ile Pro Thr Ile Asn Thr Asn Tyr
 705 710 715 720
 Tyr Ser Phe Met Gly Ala Glu Leu Lys Tyr Arg Arg Leu Tyr Ser Val
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 Tyr Leu Asn Tyr Val Phe Ala Tyr
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 <211> 707
 <212> PRT
 <213> Helicobacter pylori

<220>
 <221> PEPTIDE
 <222> (46)..(59)
 <223> Corresponding to the N-terminal domain of the BabA
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 35 40 45
 Asp Asn Tyr Glu Lys Leu Asn Asn Leu Leu Asn Asn Tyr Ser Thr Leu
 50 55 60
 Asn Thr Leu Ile Lys Leu Ser Ala Asp Pro Ser Ala Ile Asn Asp Ala
 65 70 75 80
 Arg Asp Asn Leu Gly Ser Ser Ala Lys Asn Leu Leu Asp Val Lys Thr
 85 90 95
 Asn Ser Pro Ala Tyr Gln Ala Val Leu Leu Ala Leu Asn Ala Ala Val
 100 105 110
 Gly Leu Trp Gln Val Thr Ser Tyr Ala Phe Thr Ala Cys Gly Pro Gly
 115 120 125

Ser Asn Glu Ser Ala Asn Gly Gly Ile Gln Thr Phe Asn Asn Val Pro
 130 135 140

Gly Gln Lys Thr Thr Thr Ile Thr Cys Asn Ser Tyr Tyr Gln Pro Gly
 145 150 155 160

His Gly Gly Pro Ile Ser Thr Ala Asn Tyr Ala Lys Ile Asn Gln Ala
 165 170 175

Tyr Gln Ile Ile Gln Lys Ala Leu Thr Ala Asn Glu Ala Asn Gly Asp
 180 185 190

Gly Val Pro Val Leu Ser Asp Thr Thr Thr Lys Leu Asp Phe Thr Ile
 195 200 205

Gln Gly Asp Lys Arg Thr Gly Gly Arg Pro Asn Thr Pro Lys Lys Phe
 210 215 220

Pro Trp Ser Asp Gly Lys Tyr Ile His Thr Gln Trp Ile Asp Thr Thr
 225 230 235 240

Pro Gln Ser Thr Glu Thr Lys Ile Asn Thr Glu Asn Asn Ala Gln Glu
 245 250 255

Leu Leu Lys Gln Ala Ser Ile Ile Ile Thr Thr Leu Asn Glu Ala Cys
 260 265 270

Pro Asn Phe Gln Asn Gly Gly Ser Gly Tyr Trp Gln Gly Ile Ser Gly
 275 280 285

Asn Gly Thr Met Cys Gly Met Phe Lys Asn Glu Ile Ser Ala Ile Gln
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Gly Met Ile Ala Asn Ala Gln Glu Ala Val Ala Gln Ser Lys Ile Val
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Ser Glu Asn Ala Gln Asn Gln Asn Asn Leu Asp Thr Gly Lys Pro Phe
 325 330 335

Asn Pro Phe Thr Asp Ala Ser Phe Ala Gln Ser Met Leu Lys Asn Ala
 340 345 350

Gln Ala Gln Ala Glu Ile Leu Asn Gln Ala Glu Gln Val Val Lys Asn
 355 360 365

Phe Glu Lys Ile Pro Lys Asn Phe Val Ser Asp Ser Leu Gly Val Cys
 370 375 380

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Ile	Gln	Gln	Ala	Glu	Asn	Ile	Ala	Asp	Thr	Leu	Val	Asn	Phe	Lys	Ser	435	440	445	
Arg	Tyr	Ser	Glu	Leu	Gly	Asn	Thr	Tyr	Asn	Ser	Ile	Thr	Thr	Ala	Leu	450	455	460	
Ser	Lys	Val	Pro	Asn	Ala	Gln	Ser	Leu	Gln	Asn	Val	Val	Gly	Lys	Lys	465	470	475	480
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Asn Phe Gln Phe Leu Phe Asn Met Gly Val Arg Met Asn Leu Ala Arg
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<213> Helicobacter pylori

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<211> 60
<212> DNA
<213> Helicobacter pylori

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